# HAYNES BEFFEL & WOLFELD LLP

P.O. Box 366, 751 Kelly Street
Half Moon Bay, CA 94019
Phone 650-712-0340 Fax 650-712-0263
www.HMBay.com

RECEIVED ERNIE BEFFEL CENTRAL FAX CENTERJIM HANN

SEP 1 2 2006 LL KENNEDY KENTA SUZUE PETER SU JOSEPH E. ROOT

\*admitted in MA only

# FACSIMILE TRANSMITTAL FORM

FAX NUMBER:	(571) 273-8300
TRANSMITTED TO:	Central Fax
OF:	U.S. Patent and Trademark Office
FROM:	Warren S. Wolfeld/Kathryn Marley
CLIENT/MATTER:	GEMF 2056-1 (10/073,763)
DATE:	12 SEPTEMBER 2006

TC	TAL NUMBER OF PAGES INCLUDING THIS COVER SHEET:	23	
ORI	GINAL:		
x	WILL NOT FOLLOW		
	FOLLOWS VIA U.S. MAIL		
	FOLLOWS VIA COURIER		

# MAIL STOP PETITION ATTENTION PAUL SHANOSKI, SENIOR ATTORNEY

THE DOCUMENTS ACCOMPANYING THIS TELECOPY TRANSMISSION CONTAIN INFORMATION FROM HAYNES BEFFEL & WOLFELD LLP AND ARE FOR THE SOLE USE OF THE ABOVE INDIVIDUAL OR ENTITY, AND MAY BE PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE UNDER LAW. ANY OTHER DISSEMINATION, DISTRIBUTION OR COPYING OF THIS COMMUNICATION IS STRICTLY PROHIBITED. PLEASE NOTIFY US IMMEDIATELY BY TELEPHONE IF YOU ARE NOT THE INTENDED RECIPIENT AND RETURN THE ORIGINAL MESSAGETO US AT THE ABOVE ADDRESS. WE WILL REIMBURSE YOUR REASONABLE PHONE AND POSTAGE EXPENSE FOR DOING SO.

Sep. 12. 2006 4:08PM Haynes Beffel Wolfeld LLP

No.3262 P. 2

Application No. 10/073,763

Attorney Docket No. GEMF 2056-1

CERTIFICATE OF TRANSMISSION UNDER 37 CFR 1.8

I hereby certify that this correspondence is being facsimile transmitted to United States Patent and Trademark Office at

Fax No. 571.273.8300 on 12 September 2006

Kathryn Marley Muly

RECEIVED CENTRAL FAX CENTER SEP 1 2 2006

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Markus P. Hehlen, et al.

Application No.: 10/073,763

Confirmation No.: 4505

Filed: 11 February 2002

Title: Integrated Optical Isolator Array

Group Art Unit: 2874

Examiner: Phan T.H. Palmer

**CUSTOMER NO. 54413** 

MAIL STOP PETITION

ATTN: PAUL SHANOSKI, SENIOR ATTORNEY

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

# RESPONSE TO DECISION ON PETITION TO WITHDRAW HOLDING OF ABANDONMENT

Sir:

Applicants previously filed a Petition Under 37 C.F.R. 1.181(a) to Withdraw the Holding of Ahandonment Based on Failure to Receive Notice of Allowance. The Petition was Dismissed as untimely and on the ground that applicant failed to meet its duty to notify the Patent Office of its change of address.

Applicants therefore now submit herewith a "Petition for Revival of an Application for Patent Abandoned Unintentionally Under 37 C.F.R. §1.137(b)."

# DOCUMENTS SUBMITTED HEREWITH

Submitted herewith are the following documents:

1. Petition for Revival of an Application for Patent Abandoned Unintentionally Under 37 C.F.R. §1.137(b).

Application No. 10/073,763

Attorney Docket No. GEMF 2056-1 RECEIVED CENTRAL FAX CENTER

2. Exhibit A, which includes: SEP 1 2 2006

- A copy of the Petition Under 37 C.F.R. §1.181(a) to Withdraw the Holding of Abandonment Based on Failure to Receive Notice of Allowance received in the Patent Office on 11 May 2006;
- A copy of the Request for Continued Examination (RCE) filed with the b. Petition Under 37 C.F.R. §1.181(a) on 11 May 2006;
- A copy of the Information Disclosure Statement (IDS) filed with the Petition Under 37 C.F.R. §1.181(a) on 11 May 2006;
- A copy of the Amendment filed with the Petition Under 37 C.F.R. d. §1.181(a) on 11 May 2006.
  - A Form PTO 2038 in the amount of \$750 to cover the petition fcc. 3.

#### **CONCLUSION**

In light of the above, Applicants respectfully submit that the application should be revived, and that the RCE, IDS, and Amendment should be considered.

Applicants further submit that the pending claims are again in condition for allowance and thereby solicit acceptance of the claims, in light of these amendments.

Respectfully submitted,

Dated: 12 September 2006

GEMFIRE c/o Haynes Beffel & Wolfeld LLP P.O. Box 366 Half Moon Bay, CA 94019 (650) 712-0340 (telephone) (650) 712-0263 (facsimile)

PTO/SB/64 (07-06) Approved for use through 09/30/2006, OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1895, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Docket Number (Optional) PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT GEMF 2056ECEIVED ABANDONED UNINTENTIONALLY UNDER 37 CFR 1.137(b) CENTRAL FAX CENTER First named inventor MARKUS P. HEHLEN ET AL. SEP 1 2 2006 Art Unit: 2874 Application No.: 10/073,763 Examiner PHAN T H PALMER Filed: 11 FEBRUARY 2002 INTEGRATED OPTICAL ISOLATOR ARRAY Attention: Office of Petitions Mail Stop Petition Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 FAX (571) 273-8300 NOTE: If information or assistance is needed in completing this form, please contact Petitions Information at (571) 272-3282. The above-identified application became abandoned for failure to file a timely and proper reply to a notice or action by the United States Patent and Trademark Office. The date of abandonment is the day after the expiration date of the period set for reply in the office notice or action plus an extensions of time actually obtained APPLICANT HEREBY PETITIONS FOR REVIVAL OF THIS APPLICATION NOTE: A grantable petition requires the following items: (1) Petition fee; (2) Reply and/or issue fee; (3) Terminal disclaimer with disclaimer fee - required for all utility and plant applications filed before June 8, 1995; and for all design applications; and (4) Statement that the entire delay was unintentional. 1 Petition fee Small entity-fee \$ 750.00 (37 CFR 1 17(m)). Applicant claims small entity status. See 37 CFR 1 27 Other than small entity – fee \$ \_\_\_\_\_ (37 CFR 1 17(m)) 2. Reply and/or fee A. The reply and/or fee to the above-noted Office action in (identify type of reply): the form of RCE, AMENDMENT and IDS has been filed previously on 11 MAY 2006\_\_\_ is enclosed herewith. 00000048 10073763 09/13/2006 MBINAS The issue fee and publication fee (if applicable) of \$ \_\_\_\_\_ 750.00 DP has been paid previously on \_\_\_\_\_ Q1\_EC-2453 is enclosed herewith.

[Page 1 of 2] This collection of information is required by 37 CFR 1.137(b). The Information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Petent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Petition, Commissioner for Patents, P.O. Box 1450. Alexandria, VA 22313-1450.

PTO/SB/64 (07-06)
Approved for use through 09/30/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid QMB control number.

3. Terminal discla	nimer with disclaimer fee		
Since this	utility/plant application was filed o	on or after June 8, 1995,	no terminal disclaimer is required.
for other t	I disclaimer (and disclaimer fee (3 han a small entity) disclaiming the	7 CFR 1.20(d)) of \$ required period of time i	for a small entity or \$s enclosed herewith (see
filing of a grant Trademark Off abandonment	The entire delay in filing the requirable petition under 37 CFR 1.137 (ice may require additional informa or the delay in filing a petition und I)(C) and (D)).]	<ul> <li>(b) was unintentional. (Note that it is a question of the series of the seri</li></ul>	as to whether either the
contribute to identi numbers (other that the USPTO to supp USPTO, petitioners to the USPTO. Pe of the application (to of a patent. Further referenced in a number	is cautioned to avoid submitting per ity theft. Personal information such in a check or credit card authorization out a petition or an application. If this lapplicants should consider redacting titioner/applicant is advised that the numbers a non-publication request in co	as social security number form PTO-2038 submitted type of personal information such personal information such personal information second of a patent application mpliance with 37 CFR 1.21 and application may also be use 37 CFR 1.14). Check	nents filed in a patent application that may rs, bank account numbers, or credit card for payment purposes) is never required by n is included in documents submitted to the from the documents before submitting them n is available to the public after publication 3(a) is made in the application) or issuance available to the public if the application is and credit card authorization forms PTO-refore are not publicly available.
			9/12/2006
	Signature		Date
	WARREN S. WOLFELD		31,454
	Typed or printed name		Registration Number, if applicable
	HAYNES BEFFEL & WOLFELD U	_P	(650) 712-0340
	Address		Telephone Number
	DO DOVIDO HALEMOON DAY OA	04040	
	P.O. BOX 366, HALF MOON BAY, CA Address	94019	
Enclosures: 🗸	Fee Payment		
	Reply		
	Terminal Disclaimer Form		
<b>✓</b>	Additional sheets containing sta RESPONSE TO DECISION O Other: 05/11/2006 and DECISION DA	N PETITION, COPY OF PETIT	ntentional delay ION, RCE IDS, AMENDMENT FILED
I hereby certi	CERTIFICATE OF MAILIN	10:	
De	posited with the United States Postage as first class mail in an enve	stal Service on the date s lope addressed to: Mail	shown below with sufficient Stop Petition, Commissioner for
Pat	tents, P. O. Box 1450 Alexandria, Insmitted by facsimile on the date	va 22515-1450. shown below to the Unit	ed States Patent and Trademark
	fice as (571) 273-8300.	1//	ml. les
	EPTEMBER 2006	hluthups	Mark
	Date		ignáture  IRYN MARLEY
		Typed or printed nan	ne of person signing certificate
		· * F · · · · · · · · · · · · · · · · ·	

RECEIVED
CENTRAL FAX GENTER
SEP 1 2 2006

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Markus P. Hehlen, et al.

Application No.: 10/073,763

Confirmation No.: 4505 Filed: 11 February 2002

Title: Integrated Optical Isolator Array

Group Art Unit: 2874

Examiner: Phan T.H. Palmer

**CUSTOMER NO. 54413** 

# **EXHIBIT A**

# TO

# RESPONSE TO DECISION ON PETITION TO WITHDRAW HOLDING OF ABANDONMENT

May, 11. 2006 12:10PM Haynes Beffel Wolfeld LLP

No.3262

No. 3840

CENTRAL FAX GENTER

SEP 1 2 2006

Application No. 10/073,763

Attorney Docket No. GEMF 2056-1

RECEIVED
CENTRAL RAX CENTRES

MAY 1 1 2006

CERTIFICATE OF TRANSMISSION UNDER 37 CFR 1.8

I hereby certify that this correspondence is being facsimile

transmitted to United States Patent and Tradeplark Office at Fax No. 571.273.8300 on 11 May 2006.

Mathery Musley
Kethryn Martey

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Markus P. Hehlen, et al.

Application No.: 10/073,763

Confirmation No.: 4505

Filed: 11 February 2002

Title: Integrated Optical Isolator Array

Group Art Unit: 2874

Examiner: Phan T.H. Palmer

**CUSTOMER NO. 54413** 

MAIL STOP PETITION

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

PETITION UNDER 37 C.F.R. 1.181(a)

TO WITHDRAW THE HOLDING OF ABANDONMENT
BASED ON FAILURE TO RECEIVE NOTICE OF ALLOWANCE

Sir:

Applicants hereby petition for withdrawal of the Notice of Abandonment in the aboveidentified patent application, on the ground of faiture to receive the Notice of Allowance. No fee is due for the Petition, but the appropriate fee is submitted herewith for the accompanying documents.

#### **FACTS**

The Notice of Allowance mailed on November 24, 2004 was addressed to the assignee's Palo Alto, CA address. However, the assignee had previously moved in June 2002 to its current address in Fremont, CA. A copy of the Notice of Allowance (page 1 only), obtained from the PTO's files, is attached hereto as Exhibit A.

As further proof that Applicants did not receive the Notice of Allowance, attached as Exhibit B is a copy of the PTO's envelope, stamped "Forwarding Order Expired" by the U.S.

Page 1 of 2

Hay. 11. 2006 12:11PM Haynes Beffel Wolfeld LLP

No. 3840 P 3 =

Application No. 10/073,763

Attorney Docket No. GEMF 2056-1 GENTRAL FA

GENTRAL PAX GENTER

Postal Service, and received back in the PTO on December 8, 2004. This document, too, was obtained from the PTO's files.

Applicants understand that no attempt was made by the PTO to re-mail the Notice of Allowance or to find Applicants' correct address until the Notice of Abandonment was mailed 15 months later.

The Notice of Abandonment was mailed on March 2, 2006, to Assignee's correct address in Fremont, CA. A copy of the Notice of Abandonment is attached as <u>Exhibit C</u>. This was Applicants' first notice that there was an outstanding communication from the PTO.

The attached exhibits therefore demonstrate that Applicants did not receive the Notice of Allowance.

# DOCUMENTS SUBMITTED HEREWITH

Submitted herewith are the following documents:

- 1. A Request for Continued Examination (RCE)
- 2. An Information Disclosure Statement (IDS), as the "submission" required under 37 C.F.R. 1.114(c)
  - 3. An Amendment.

#### **CONCLUSION**

In light of the above, Applicants respectfully submit that the holding of abandonment should be withdrawn, and that the RCE, IDS, and Amendment be entered.

Applicants further submit that the pending claims are again in condition for allowance and thereby solicit acceptance of the claims, in light of these amendments.

Respectfully submitted,

and May

Dated: 11 May 2006

GEMFIRE c/o
Haynes Beffel & Wolfeld LLP
P.O. Box 366
Half Moon Bay, CA 94019
(650) 712-0340 (telephone)

(650) 712-0263 (facsimile)

Page 2 of 2

7592

GEMFIRE CORPORATION 2471 EAST BAYSHORE ROAD

PALO ALTO, CA 94303

'May. 11. 2006:12:11PM PAX Haynes Beffel Wolfeld LLP

11/22/2004

No.3262 P. 9



SINTE 600

# United States Patent and Trademark Office

RECEIVED

UNITED STATES DEPARTMENT OF COMMERCE

CORRECTED NOTICE OF ALLEGINATION CE AND FEE(S) DUE

RYAMERIA SALAKE, PHANTE

AKT UNIT

PAPER NUMBER

2574

DATE MAILED: 11/22/2004

AFTORNEY DOCKET NO. | CONSTRONATION NO. FIRST NAMED INVENTOR BILLING DATE APPLICATION NO. 4505 36 Bearles P. Helden . . **62/44/2002** 10/073.763

TITLE OF INVENTION: INTEGRATED OFFICAL ISOLATOR ARRAY

122212025	SWITH THE	ISSUE FEE	MUSERCATION FEE	TOTAL FEE(8) DUB	DATE DUE
APPLICATIVES		2683	SD.	\$685	m2/22/2005
economiticas)	YES	2083			

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERTIS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1368.

THE ISSUE FRE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. ISL. THE ISSUE FRE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

J. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown at YES, verify your current SMALL ENTITY SHEET:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B - Pec(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUB FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown abov

B. If applicant chimsed SMALL ENTITY and but offer is now chiming SMALL ENTITY status, check box Savia Pasts - Fee(s) Transmittal and pay the FURLICATION REE (if required) and 1/2 the ISSUE FEE shows shove.

IL PART B - FEE(S) TRANSMITTAL should be completed and cotumed to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fec(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "45" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to essuance to Mail Stop ISSUS FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents basing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fors. It is patentee's responsibility to curve timely payment of maintenance fees when due.

Page 1 of 3

PTOL-85 (Box. 11/6-Q Approved for max through 04/30/2007.

# EXHIBIT A

. . . . . . . . . .

May 11 2006 12:11 PM FAX Haynes Beffel Wolfeld LLP No. 3840

# EXHIBIT B

PAGE 5/12 \* ROYD AT 3/11/2005 3:59:14 PM (Eastern Dayfight Time) \* SVR.USPTO-EFXRF-2/22 \* DMS:2732380 \* CSID:550 712 0283 \* DURATION (mm-65):07-40

May. 11. 2006 12:12PM

Haynes Beffel Wolfeld LLP

No.3262 P. 11 HEÇEIVED No.CENTRALIFAX CENTER MAY 1 1 2006



# United States Patent and Trademark Office

UNITED STATES OF PARTMENT OF COMMUNICATION OF COMM

APPLICATION NO.	FILING DATE	PIRST NAMEO INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/073,763	02/11/2002	Markus P. Hebler	56 .	4505 .
75	90 03/02/2006		YEXAM	NER
Gemfire Corpo	ration		PALMER, I	tan th
1220 Page Ave Framont, CA			ARTUNIT	PAPER NUMBER
Framunt, CA	-		2874	
			TATE MAIT PD: 03/02/200/	<b>;</b>

Please find below and/or attached an Office communication concerning this application or proceeding.

**EXHIBIT C** 

PTO-90C (Rev. 10/03)

May. 11. 2006 12:12PM

PTOL-1432 (Rev. 04-01)

Haynes Beffel Wolfeld LLP

No. 3262 FEP. 12'ED

CENTRAL FAX CENTER

MAY 1 1 2006

Palent and Trademerk Office	olice of Abandonment	Part of Pap	er No. 0
Petitions to revive under 37 CFR 1.137(a) or (b), or requests to vinimize any negative effects on patent term.	dindraw the holding of abandonment u		
		AG	
	-		
7. The reason(s) below:			
of the decision has expired and there are no allowe	d claims.		
6. [ ] The decision by the Board of Patent Appeals and Ir		I because the period for seeking co	nut vevjem
<ol> <li>The letter of express abandonment which is signed 1.34(a)) upon the filing of a continuing application.</li> </ol>	by an attorney or agent (ecting in	a representative capacity under 37	CFR
<ol> <li>The latter of express abandonment which is signed the applicants.</li> </ol>	by the attorney or agent of record	, the assignee of the entire interest,	orall of
(0)   100 Concessed disawings have been lovered.			
after the expiration of the period for reply.  (b) \sum No corrected drawings have been received.			
Allowability (PTO-37).  (a) Proposed corrected drawings were received on			ich is
3. Applicant's failure to timely file corrected drawings	as required by, and within the three	-month period set in, the Notice of	
(c) The issue fee and publication fee, if applicable,			
The issue fee required by 37 CFR 1.18 is \$		ed by 37 CFR 1.18(d), is \$	
Allowance (PTOL-85).  (b) The submitted fee of \$ is insufficient. A !	Salance of \$ is due.		
(a) The issue fee and publication fee, if applicable			
from the mailing date of the Notice of Allowance (F	PTOL-85).		
2. Applicant's failure to timely pay the required issue	for and withheating for it applicab	in within the statement marine of these	e meethe
final rejection. See 37 CFR 1.85(a) and 1.111.  (d)  No reply has been received.	(See explanation in box 7 below)	•	
(c) A reply was received on but it does not	constitute a proper reply, or a bons		e non-
application in condition for allowance; (2) a time Continued Examination (RCE) in compilance w	ely filed Notice of Appeal (with app	eal fee); or (3) a timely filed Reques	t for
(b) A proposed reply was received on, but (A proper reply under 37 CFR 1.113 to a final r			-
Applicant's failure to firmely file a proper reply to the (a)    A reply was received on (with a Certific period for reply (including a total extension of the content of the c	ate of Mailing or Transmission date time of month(s)) which exp	ired on	
This application is abandoned in view of:			
- The MAILING DATE of this communicat	ion appears on the cover sheet w	with the correspondence address-	<del>-</del> .
	PALMER	2874	
Notice of Abandonment	Examiner	Art Unit	
	10/073.763	Markus P. Hehlen	
	Application No.	Applicant(s)	

PAGE 7/18 \* RCVD AT \$/11/2006 3:59:14 PM (Eastern Daylight Time) \* SVR:USPTO-EFXRF-2/22 \* DMB:2738300 \* CBID:650 712 0265 \* GURATION (mm-ss):07-40

RECEIVED

No.3262 P. 13

May. 11, 2006 12:13PM

Haynes Beffel Wolfeld LLP

CENTRAL FAX CENTER

No. 3840

MAY 1 1 2005

PTO/S8/39 (04-05)

Approved for use through 07/31/2009 1

U.S. Patent and Tradement Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a yalld OMB control number. 10/073,763 Request Application Number for 11 February 2002 Filing Date Continued Examination (RCE) Markus P. Hehlen First Named Inventor Transmittal 2874 Address to: Art Unit Mail Stop RCE Phan T. H. Palmer Commissioner for Patents Examiner Name P.O. Box 1450 **GEMF 2056-1** Attomey Docket Number Alexandria, VA 22313-1450 This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application. Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. See instruction Sheat for RCEs (not to be submitted to the USPTO) on page 2. Submission required under 37 CFR 1.114 Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s). Previously submitted, if a final Office action is outstanding, any amendments filed after the final Office action may be considered as a autimission even if this box is not checked. Consider the arguments in the Appeal Brief or Reply Srief previously filed on Enclosed Information Disclosure Statement (IDS) **7** Amendment/Reply L Affidavil(s)/ Declaration(s) Other PETITION UNDER 37 CFR 1.181(a) Miscellaneous Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a months. (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.176) required) The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed. Fees The Director is hereby authorized to charge the following fees, any underpayment of fees, or credit any overpayments, to . I have enclosed a duplicate copy of this sheet. Deposit Account No. \_50-0869 RCE fee required under 37 CFR 1.17(e) Extension of time fee (37 CFR 1.135 and 1.17) Other æ enclosed Check in the amount of \$ \_ Payment by credit card (Fonn PTO-2038 enclosed) c 🗸 WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED 11 May 2006 Onte Unan s. Signature Registration No. 41,454 Name (Print/Type) Warren S. Wolfeld CERTIFICATE OF MAILING OR TRANSMISSION I hereby cartify that this correspondence is being deposited with the United States Postal Service with sufficient postage as that class mall in an envelope addressed to: Mail Stop RCE, Commissioner for Patenta, P. O. Box 1450, Alexandria, VA 22313-1450 or facsimile transmitted to the U.S. Patent and Tra BESCHESS 19973763 <del>25/12/2086-181108</del> Office on the date shown below Billelance 88 May 2006

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to tile (and by the USPTO This collection of information is required by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on including gathering, properties to complete this form and/or suggestions for reducing this burden, should be sent to the Chief information Officer, U.S. Department of Commerca, P.O. Box 1450, Alexandria, VA 22313-1450.

ADDRESS, SEND TO: Mail Stop RCE, Commissioners in complete the form and 1.200, Alexandria, VA 22313-1450.

If you need essistance in completing the form, call 1-800-PTO-9199 and select option 2.

Sep. 12. 2006 4:10PM Haynes Beffel Wolfeld LLP

'May. 11. 2006 12:14PM

Haynes Beffel Wolfeld LLP

No. 3840 P. 14:IVED
No. 3840 MAY 1 1 2006

Application No. 10/073,763

GEMF 2056-1

CERTIFICATE OF TRANSMISSION UNDER 37 CFR 1.8

I hereby certify that this correspondence is being facsimile

transmitted to United States Patent and Trademark Office at Fax No. 571.273.8300 on 11 May 2006.

Kathryh Marky

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Markus P. Hehlen, et ai.

Application No.: 10/073,763

Confirmation No.: 4505

Filed: 11 February 2002

Title: Integrated Optical Isolator Array

Group Art Unit: 2874

Examiner: Phan T.H. Palmer

CUSTOMER NO. 54413

## MAIL STOP PETITION

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

# INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.56

Sir:

It is requested that the information identified in this statement be considered by the Examiner and made of record in the above-identified application. This statement is not intended to represent that a search has been made or that the information cited in the statement is, or is considered to be, material to patentability as defined in 37 C.F.R. 1.56.

Enclosed with this statement is a Form PTO-SB/08. The Examiner is requested to initial the form and return it to the undersigned in accordance with M.P.E.P. 609.

Also enclosed with this statement is a copy of each cited document as required by 37 C.F.R. 1.98. The exception to this, in accordance with the 05 August 2003 Official Gazette Notice in which the USPTO waives the requirement for submitting copies of U.S. Patent and Publications for cases filed after 30 June 2003, is that copies of U.S. Patent documents and copies of U.S. Patent publications are not being submitted.

This statement should be considered under 37 C.F.R. 1.97(b) because it is being filed before the mailing date of the first Office Action after the filing of a Request for Continued Examination under 37 C.F.R. 1.114.

///

Sep.12. 2006 4:10PM Haynes Beffel Wolfeld LLP

No.3262 P. 15

May. 11. 2006 12:14PM

Haynes Beffel Wolfeld LLP

No. 3840 P. 11

Application No. 10/073,763

GEMF 2056-1

Fee Authorization. The Commissioner is hereby authorized to charge underpayment of any additional fees or credit any overpayment associated with this communication to Deposit Account No. 50-0869 (GEMF 2056-1).

Respectfully submitted,

Dated: 5/11/2006

Warren S. Wolfeld, Reg. No. 41,454

GEMFIRE c/o
HAYNES BEFFEL & WOLFELD LLP
P.O. Box 366
Half Moon Bay, CA 94019
(650) 712-0340 phone
(650) 712-0263 fax

PEVELVELNO.3262

CENTRAL FAX CENTER

MAY 1 1 2006

12

PTO/SB/08A (07-05)

May. 11. 2006 12:15PM

Haynes Beffel Wolfeld LLP

Approved for use through 07/31/2005. DMB 0651-0031

Substitute for form 1449/PTO	d to respond to a collection of information unless 8 contains 9 yalld OMB control number (CO))) (Fig. 17 - V/10 V/17		
Walingston for the Co. Co.	Application Number	10/073,763	
INCORMATION DISCLOSURE	Filing Date	11 FEBRUARY 2002	
INFORMATION DISCLOSURE	First Named Inventor	MARKUS P. HEHLEN	
STATEMENT BY APPLICANT	Art Unit	2874	
(Use as many sirects as necessary)		PHAN T.H. PALMER	
Sheet 1 of 1	Attorney Docket Number	GEMF 2056-1	

6	( Par	Designant Mumber	Publication Date	DOCUMENTS  Name of Patentee or	Pages, Columna, Linea, Where
Examiner Initials*	No.	Document Number	WW-DID-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>® (F. Sp. co.</sup> )	<del></del>		1 4 2 2 3 4 1 2 2 2
		<sup>US-</sup> 5,663,824	09-02-1997	KOCH ET AL	
		<sup>US-</sup> 5,991,481	11-23-1999	NUANG	
		US- 5,905,823	05-18-1999	SHINTAKU ET AL	
		US-			
		US-	1		
		US-			
		US-			
		US			
		US-			
		Ų\$.			
		US-			
		na-			
		US-			
<del></del>		uş.			

		FOREIG	N PATENT DOCU	MENTS		
Examiner Intitals*	Cite	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Unea, Where Relevant Passages	7.
		Country Code <sup>2—Number A</sup> TKind Code <sup>8</sup> (# Immer)	MIM-DD-YYYY		Or Relevant Figures Appear	<del>                                     </del>
	<u> </u>		ļ			┝
	<del> </del>					L
	<del>  -</del> -					
						<u>L</u>

Examper Signships	Date Considered	

EXAMINER: (Inhall if reference considered, whether or not ceation is in comformance with MPEP 808. Draw line through cristion if not in conformance and not considered, include copy of this term with next communication to applicant. 'Applicant's unique citation designation number (optionar). 'See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. 'Senter OSice that issued the document, by the two-leater code (WIPO Stendard ST.3). 'For USPTO Patent Documents, the indication of the year of the reign of the Emperor must precede the sental number of the patent document. 'Nind of document by lapsangue patent document, by the two-leater of the document under WIPO Standard ST.16 if possible. 'Applicant is to place a check mark here if English language the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 'Applicant is to place a check mark here if English language than appropriate symbols as indicated by 37 CFR 1 D7 and 1 S8. The information is consisted to obtain or retain a benealt by the public which is to tile (and by the

Translation is attached.

This collection of information is required by 37 CFR 1,87 and 1,98. The information is required to obtain or retain a benefit by the public which is to file (and by the This collection of information is required by 38 U.S.C. 122 and 37 CFR 1,14. This collection is estimated to take 2 hours to complete, usefulning printing, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this tundent, should be sent to the Chief information Officer, U.S. Petent and Tradement Office, P.O. Box 1450, Abstandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patients, P.O. Box 1450, Abstandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Sep.12. 2006 4:11PM

Haynes Beffel Wolfeld LLP

No.3262

MEVE! YEW CENTRAL FAX CENTER No. 3840

'May. 11. 2006 12:15PM

Haynes Beffel Wolfeld LLP

P. 13

Application No. 10/073,763

Attorney Docket No. GEMF 2056-1

CERTIFICATE OF TRANSMISSION UNDER 37 CFR 1.8

I hereby certify that this correspondence is being facsimile

transmitted to United States Potent and Trademark Office at Fax No. 571.273.8300 on 11 May 2006.

Kathryn Marle

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Markus P. Hehlen, et al.

Application No.: 10/073,763

Confirmation No.: 4505 Filed: 11 February 2002

Title: Integrated Optical Isolator Array

Group Art Unit: 2874

Examiner: Phan T.H. Palmer

CUSTOMER NO. 54413

#### MAIL STOP PETITION

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

#### <u>AMENDMENT</u>

Sir:

Please consider the following amendment:

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks begin on page 6 of this paper.

///

May. 11. 2006 12:15PM

Haynes Beffel Wolfeld LLP

No. 3840 P. 14

Application No. 10/073,763

Attorney Docket No. GEMF 2056-1

#### In the claims:

This listing of claims will replace all prior versions and listings of claims in the application:

- 1. (currently amended) An integrated optical isolator device, comprising:
- a planar optical substrate;
- a first waveguide formed in said optical substrate and having an input section and an output section; and

[[an]] a passive isolator element affixed to said optical substrate and positioned in an optical path of said first waveguide between said input section and said output section, said isolator element being configured to allow the passage of forwardly traveling light from said input section to said output section of said first waveguide while inhibiting the passage of backwardly traveling light from said output section to said input section.

- 2. (original) The device of claim 1, further comprising a trench formed in said optical substrate, said trench being oriented transversely with respect to a longitudinal axis of said first waveguide, and wherein said trench receives and holds a lower end of said isolator element.
- 3. (original) The device of claim 1, further comprising a second waveguide formed in said optical substrate and having an input section and an output section, and wherein said optical isolator element is further positioned in an optical path of said second waveguide between said input section and said output section of said second waveguide.
- 4. (original) The device of claim 1, wherein said isolator element comprises at least one Faraday rotator layer interposed between birefringent layers.
- 5. (original) The device of claim 1, wherein said input section includes a first taper section for expanding forwardly traveling light from a first mode size to a second mode size.
- (original) The device of claim 1, wherein said first taper section is substantially adiabatic.

#### Page 2 of 6

Haynes Beffel Wolfeld LLP

No. 3840 P. 15

Application No. 10/073,763

Attorney Docket No. GEMF 2056-1

- 7. (original) The device of claim 5, wherein said output section includes a second taper section for contracting forwardly traveling light from said second mode size to a third mode size.
- 8. (original) The device of claim 1, wherein a long axis of said isolator element is oriented perpendicular to an optical axis of said first waveguide.
- 9. (original) The device of claim 2, wherein said trench extends partially through a thickness of said optical substrate.
- 10. (original) The device of claim 2, wherein said optical substrate is affixed to an underlying support substrate, and said trench extends fully through a thickness of said optical substrate and partially into a thickness of said support substrate.
- 11. (original) The device of claim 1, wherein said first waveguide has an associated mode center located at least 30 microns below an upper major surface of said optical substrate.
- 12. (original) The device of claim 1, wherein said input and output sections of said first waveguide are formed simultaneously in said optical substrate.
- 13. (original) The device of claim 1, wherein said optical substrate is formed from a glass.
- 14. (original) The device of claim 1, wherein said first waveguide is formed by field assisted ion-exchange.
- 15. (original) The device of claim 2, wherein said planar optical substrate comprises separate first and second pieces, said input section being formed in said first piece and said output section being formed in said second piece, said first and second pieces being spaced apart across a gap, and said isolator element being disposed at least partially within said gap.

### Page 3 of 6

No. 3840 P. 16

Application No. 10/073,763

Attorney Docket No. GEMF 2056-1

- 16. (original) The device of claim 15, wherein said first and second pieces are affixed to a common support substrate.
  - 17. (original) An integrated optical isolator array, comprising:
  - a planar optical substrate;
- a plurality of waveguides formed in said optical substrate, each one of the plurality of waveguides having an input section and an output section; and

an isolator element affixed to said optical substrate and positioned in the optical paths of at least two of said waveguides between said input sections and said output sections, said isolator element being configured to allow the passage of forwardly traveling light from said input sections to said output sections of said at least two waveguides while inhibiting the passage of backwardly traveling light from said output sections to said input sections.

- 18. (original) The integrated optical isolator array of claim 17, further comprising a trench formed in said optical substrate, said trench being oriented transversely with respect to the longitudinal axes of said plurality of waveguides, and wherein said trench receives and holds a lower end of said isolator element.
- 19. (original) The integrated optical isolator array of claim 17, wherein said isolator element is positioned in the optical paths of all of said plurality of waveguides.
- 20. (original) The integrated optical isolator array of claim 17, wherein said isolator element comprises at least one Faraday rotator layer interposed between birefringent layers.
- 21. (original) The integrated optical isolator array of claim 17, wherein said input sections each include a first taper section for expanding forwardly traveling light from a first mode size to a second mode size.
- 22. (original) The integrated optical isolator array of claim 21, wherein said first taper section is substantially adiabatic.

### Page 4 of 6

May, 11. 2006 12:16PM Haynes Beffel Wolfeld LLP

No. 3840 P 17

Application No. 10/073,763

Attorney Docket No. GEMF 2056-1

- 23. (original) The integrated optical isolator array of claim 21, wherein each of said output sections includes a second taper section for contracting forwardly traveling light from said second mode size to a third mode size.
- 24. (original) The integrated optical isolator array of claim 17, wherein a long axis of said isolator element is oriented perpendicular to the optical axes of said plurality of waveguides.
- 25. (original) The integrated optical isolator array of claim 18, wherein said trench extends partially through a thickness of said optical substrate.
- 26. (original) The integrated optical isolator array of claim 18, wherein said optical substrate is affixed to an underlying support substrate, and said trench extends fully through a thickness of said optical substrate and partially into a thickness of said support substrate.
- 27. (original) The integrated optical isolator array of claim 17, wherein said input and output sections of said plurality of waveguides are formed simultaneously in said optical substrate.
- 28. (original) The integrated optical isolator array of claim 17, wherein said optical substrate is formed from a glass.
- 29. (original) The integrated optical isolator array of claim 18, wherein said planar optical substrate comprises separate first and second pieces, said input section being formed in said first piece and said output section being formed in said second piece, said first and second pieces being spaced apart across a gap, and said isolator element being disposed at least partially within said gap.
- 30. (original) The integrated optical isolator array of claim 29, wherein said first and second pieces are affixed to a common support substrate.

Sep.12. 2006 4:11PM Haynes Beffel Wolfeld LLP

No.3262 P. 22

May. 11. 2006 12:17PM

Haynes Beffel Wolfeld LLP

No. 3840 P. 18

Application No. 10/073,763

Attorney Docket No. GEMF 2056-1

#### **REMARKS**

This amendment adds no new matter, and is made to more particularly point out the invention.

Respectfully submitted,

Datad.

5/11/2006

Warren S. Wolfeld, Reg. No. 41,454

GEMFIRE c/o
HAYNES BEFFEL & WOLFELD LLP
P.O. Box 366
Half Moon Bay, CA 94019
(650) 712-0340 phone
(650) 712-0263 fax

# This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

# **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

BLACK BORDERS

IMAGE CUT OFF AT TOP, BOTTOM OR SIDES

FADED TEXT OR DRAWING

BLURRED OR ILLEGIBLE TEXT OR DRAWING

SKEWED/SLANTED IMAGES

COLOR OR BLACK AND WHITE PHOTOGRAPHS

GRAY SCALE DOCUMENTS

LINES OR MARKS ON ORIGINAL DOCUMENT

REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY

# IMAGES ARE BEST AVAILABLE COPY.

☐ OTHER:

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.